

PENTODE

DESCRIPTION

The GL-6136 is a miniature sharp cutoff pentode for use as a high-gain radio-frequency or intermediate-frequency amplifier. The tube is specially designed to assure dependable life and reliable service under the exacting conditions encountered

in mobile and aircraft applications. Features include a high degree of mechanical strength and a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential		
Heater Voltage (A-c or D-c)	6.3	Volts
Heater Current	0.3	Ampere
Direct Interelectrode Capacitances		
Grid—No. 1 to Plate, maximum	0.0035	0.0035 uuf
Input	6.5	6.0 uuf
Output	5.5	5.0 uuf

Mechanical Data

Mounting Position—Any
 Envelope—T-5½ Glass
 Base—Miniature Button 7-Pin, E7-1


Electronic
 TUBE

GENERAL  ELECTRIC

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Electrical—Design Center Values	
Plate Voltage.....	300 Volts
Suppressor Voltage†.....	0 Volt
Screen Supply Voltage.....	300 Volts
Screen Voltage.....	150 Volts
Positive D-c Grid—No. 1 Voltage.....	0 Volt
Plate Dissipation.....	3.0 Watts
Screen Dissipation.....	0.65 Watt
Heater-Cathode Voltage.....	90 Volts
Mechanical	
Peak Impact Acceleration in Any Direction.....	600 G

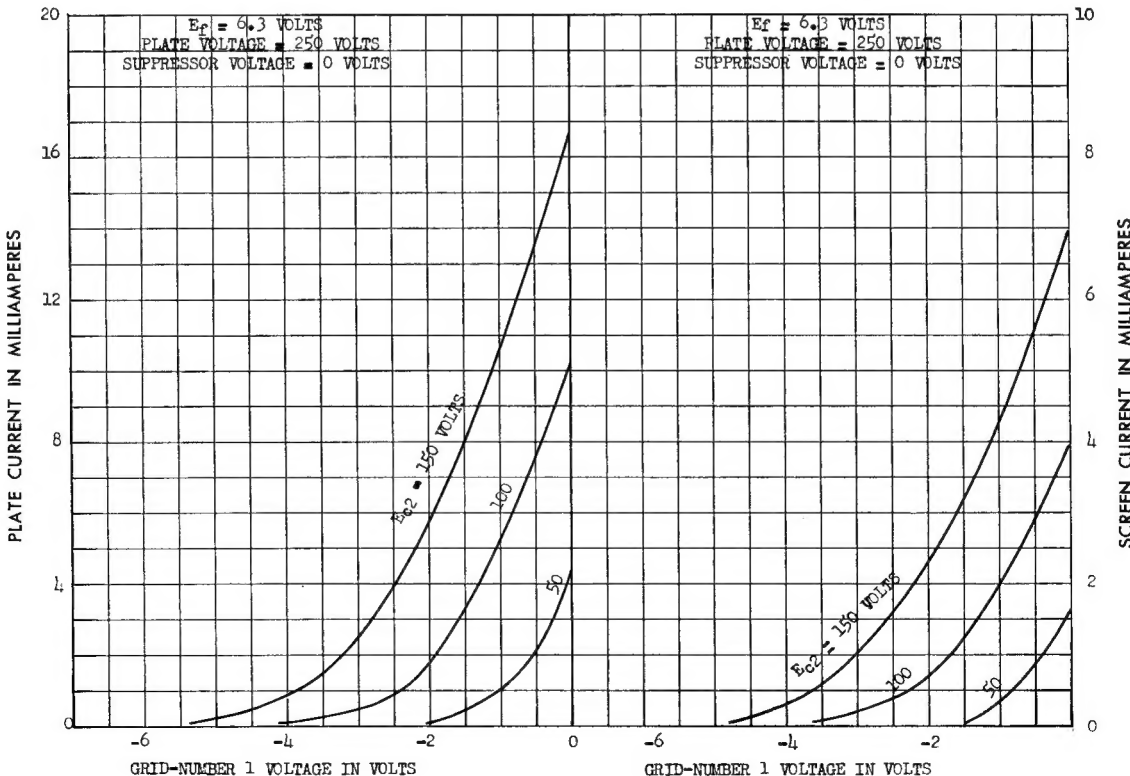
CHARACTERISTICS AND TYPICAL OPERATION

Class A ₁ Amplifier	
Plate Voltage.....	100 250 Volts
Suppressor Voltage†.....	0 0 Volt
Screen Voltage.....	100 150 Volts
Cathode Bias Resistor.....	150 68 Ohms
Plate Resistance, approximate.....	0.5 1.0 Megohm
Transconductance.....	3900 5200 Micromhos
Plate Current.....	5.0 10.6 Milliamperes
Screen Current.....	2.1 4.3 Milliamperes
Grid—No. 1 Voltage, approximate for I _b = 10 Microamperes.....	−4.2 −6.5 Volts

* With external shield No. 316 connected to pin 7.

† Pin 2 connected to pin 7 at socket.

**GL-6136
AVERAGE CHARACTERISTICS**



AVERAGE PLATE CHARACTERISTICS

$E_f = 6.3$ VOLTS

SCREEN VOLTAGE = 150 VOLTS

SUPPRESSOR VOLTAGE = 0 VOLTS

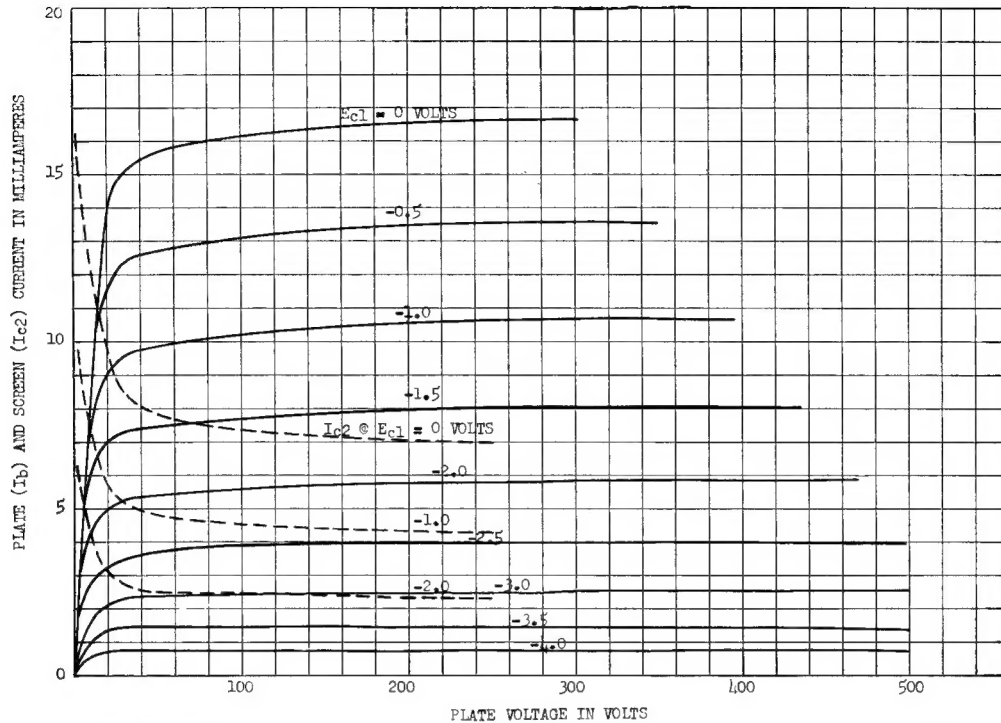
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GL-6136

ETX-268

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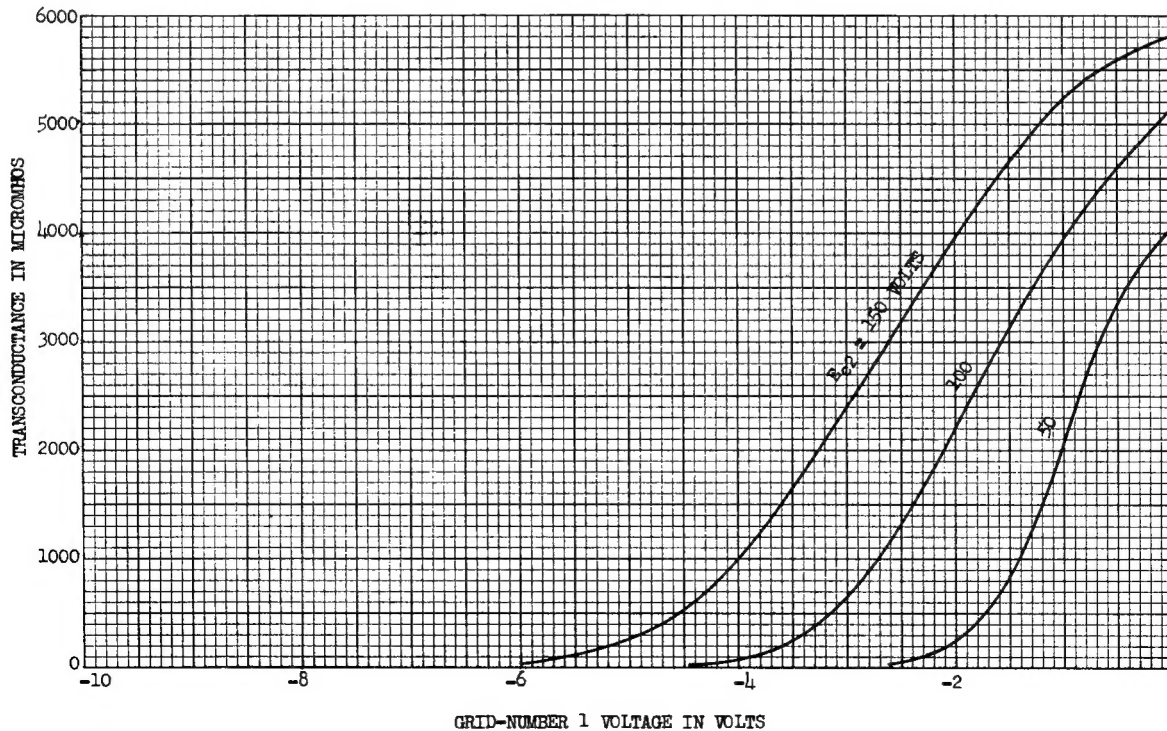


AVERAGE CHARACTERISTICS

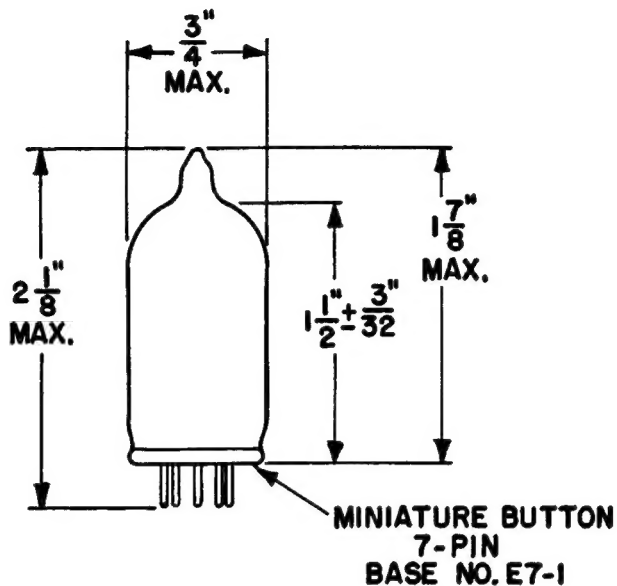
$E_f = 6.3$ VOLTS

PLATE VOLTAGE = 250 VOLTS

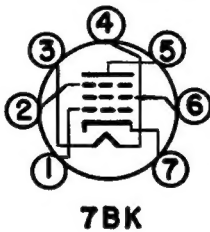
SUPPRESSOR VOLTAGE = 0 VOLTS



OUTLINE
GL-6136



BASING DIAGRAM



- PIN 1: GRID NO.1
 PIN 2: GRID NO.3 AND INTERNAL SHIELD
 PIN 3: HEATER
 PIN 4: HEATER
 PIN 5: PLATE
 PIN 6: GRID NO.2 (SCREEN)
 PIN 7: CATHODE

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Tube Department

GENERAL  ELECTRIC
 Schenectady, N. Y.